KINGDOM OF SAUDI ARABIA

THE NATIONAL COMMISSION FOR ACADEMIC ACCREDITATION & ASSESSMENT

COURSE SPECIFICATION

HASEB 241

Revised March 2007

Course Specification

For Guidance on the completion of this template, please refer to of Handbook 2 Internal Quality Assurance Arrangements

Institution : Almajmaah University
College/Department : Community College at Al-Majma'a- Department of Applied and Natural Science

A Course Identification and General Information

1. Course title and code : Computer networks - computer 241
2. Credit hours : 3 hours
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs) Computer major/Preparation program
4. Name of faculty member responsible for the course : Sharfi Mustafa Abbass
5. Level/year at which this course is offered : the forth
6. Pre-requisites for this course (if any) : 123 computer
7. Co-requisites for this course (if any) : nothing
8. Location if not on main campus : The Community college at Al-Majma'a,hall 2:2-A9

B Objectives

1. Summary of the main learning outcomes for students enrolled in the course. Brief description of the main learning outcomes for students registered at this course A. A. Knowing main concepts in communication systems. B. Understand basics of computer networks. C. Understand network protocols. D. Understand different architectures of networks.
2. Briefly describe any plans for developing and improving the course that are being implemented. (eg increased use of IT or web based reference material, changes in content as a result of new research in the field)

C. Course Description (Note: General description in the form to be used for the Bulletin or Handbook should be attached)

1 Topics to be Covered		
Topic	No of Weeks	Contact hours
Communication systems	1	2
Introduction to computer networks	2	2
Networks classification - computing power distribution	3	2
Networks classification - Geographical distribution	4	2
Networks classification – Topology & Communication media	5	2
Connectivity devices & first test	6	2
Network Standards	7	2
OSI Models - Physical Layer & Data Link Layer & Network Layer	8	2
OSI Models – Transport Layer & Session Layer & Presentation Layer & Application Layer	9	2
TCP/IP Models	10	2
TCP/IP Models	11	2
Ethernet Network	12	2
Ethernet Network & Token Ring	13	2
Network Security	14	2
Internet & Intranet & Extranet	15	2

2 Course components (total contact hours per semester):			
Lecture: 2 hours	Tutorial: 2 hours	Practical/Fieldwork/Internship:	Other:

3. Additional private study/learning hours expected for students per week. (This should be an average

:for the semester not a specific requirement in each week)

A student has to study at an average of 6 hours weekly ,i.e in an average of 90 hours at a semester

4. Development of Learning Outcomes in Domains of Learning

For each of the domains of learning shown below indicate:

- A brief summary of the knowledge or skill the course is intended to develop;
- A description of the teaching strategies to be used in the course to develop that knowledge or skill;
- The methods of student assessment to be used in the course to evaluate learning outcomes in the domain concerned.

a. Knowledge

(i) Description of the knowledge to be acquired

A- Learning about the history of communication systems.
B. learning about basics of computer networks.
C. Learning about kinds of computer networks

(ii) Teaching strategies to be used to develop that knowledge

Learning strategies (teaching) that need to be used to improve that knowledge
-Lecture
-Practical application
-Researches in internet application

(iii) Methods of assessment of knowledge acquired

Methods of evaluating achieved knowledge
-Written and oral examinations
-Short examinations
-Homework

b. Cognitive Skills

(i) Cognitive skills to be developedKnowledge and awareness
1-Knowledge skills to be developed are:

- The ability to analyze current issues that encounter a major and the way of dealing with them in a scientific and methodological manne

(ii) Teaching strategies to be used to develop these cognitive skillsThought analysis of these issues and trying to find proper solutions for them
(iii) Methods of assessment of students cognitive skills Ways of evaluating obtained knowledge skills: - Giving students statistic problems or definite case studies and asking them to examine and finding solutions for these studies
c. Interpersonal Skills and Responsibility
(i) Description of the interpersonal skills and capacity to carry responsibility to be developed Skills of personal relations and responsibility - 1.A description of personal relations skills with others and the ability of bearing responsibility needs to be improved - -The ability of working as groups - - The ability of leading discussion team
(ii) Teaching strategies to be used to develop these skills and abilities -Learning strategies used in developing these skills and capabilities -Involving students in group discussions -Granting students leadership opportunity to lead discussion team
(iii) Methods of assessment of students interpersonal skills and capacity to carry responsibility 3- Ways of evaluating students achievements of personal relations skills and their ability of bearing responsibility -Correcting group discussion -Correcting the role done by the head of discussion
d. Communication, Information Technology and Numerical Skills
(i) Description of the skills to be developed in this domain. A description of numeric skills and communication skills needed to be improved; -Writing skill by reports -Oral communication by presentation and delivering
(ii) Teaching strategies to be used to develop these skills 2-Learning strategies used in developing these skills -Tasking students with doing written reports on subjects to be discussed in the course.
(iii) Methods of assessment of students numerical and communication skills

3- Methods of evaluating students achievements of communication skills ,IT technology and arithmetic skills(numeric) -Correcting written reports -Correcting students performance by presentation and delivery
e. Psychomotor Skills (if applicable)
(i) Description of the psychomotor skills to be developed and the level of performance required A description of motion skills (muscular skills of a psychological origin) that Need to be improved in this regard: not available
(ii) Teaching strategies to be used to develop these skills 2-Learning strategies used in promoting motion skills: not available
(iii) Methods of assessment of students psychomotor skills 3-Methods of evaluating students achievements of motion skills: not available 4- Determining time table for the correction tasks upon which students are evaluated during an academic

5. Schedule of Assessment Tasks for Students During the Semester			
Assessment	Assessment task (eg. essay, test, group project, examination etc.)	Week due	Proportion of Final Assessment
1	Reports and functions	3-5—9-13	10%
2	Functions	4-8-12	10%
3	Monthly first and exam	seventh	20%
4	Monthly twelfth and exam	thirteenth	20%
5	Final exam	according to exams schedule	40%

D. Student Support

1. Arrangements for availability of faculty for individual student consultations and academic advice. (include amount of time faculty are available each week) The number of office hours determined during the academic semester 15 hours weekly Day

Saturday two office hours 10-12 Sunday one office hour 10-12 Monday one office hour 10-11 Tuesday one office hour 8-9 Wednesday one office hour 10-12

E Learning Resources

1. Required Text(s) Computer networks , A.Tanenbauw
2. Essential References Computer Reference – Dr. Waleed Owda Network Course - 2001
3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List) Sugested books and references (Scientific periodicals, reports,) published in the personal web site http://faculty.ksu.edu.sa/sharfi
4-.Electronic Materials, Web Sites etcElectronic materials and internet websites, etc Published in the personal website http://faculty.ksu.edu.sa/sharfi
5- Other learning material such as computer-based programs/CD, professional standards/regulations Other Learning materials such as the programs that are accredited on computer or CDs or vocational standards or systems Published in the personal web site http://faculty.ksu.edu.sa/sharfi

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (ie number of seats in classrooms and laboratories, extent of computer access etc.)
1. Accommodation (Lecture rooms, laboratories, etc.) Determine the course requirements including the volume of chapters and laboratories, i.e. the number of seats in the semesters and laboratories and the extent of providing computer sets, etc. (a lecture hall with a capacity of 30 students\

2. Computing resources -Computer workshop including 30 computers
3. Other resources (specify --eg. If specific laboratory equipment is required, list requirements or attach list) other materials: -Smart board +a projector

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching Strategies of getting feedback from students and learning efficiency-Questionnaires distributed to students to recognize their opinions and the extent of teaching method efficiency - Working with the style of Focus Group to learn about students views concerning the course and the efficiency of teaching style
2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department Other strategies followed in evaluating the teaching process either by teachers or by the department Periodical revision of the course/courses by the committee of teaching plans and schedules in the department -Visitor instructors -Peer review
3 Processes for Improvement of Teaching processes of learning improvement - Improving learning resources according to the recommendations of the committee of plans and teaching schedules at the department an internal revision and visitor instructors. -Encouraging using modern technology in presenting teaching course - Encouraging self learning processes -Encouraging outer readings -Promoting students for presentation and delivery -Encouraging students for group discussion

4. Processes for Verifying Standards of Student Achievement (eg. check marking by an independent faculty member of a sample of student work, periodic exchange and remarking of a sample of assignments with a faculty member in another institution) Taking the considerations of internal and external references revisions for improving and developing a course in a consequent manner
5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.